

WHAT IS CLAIMED IS:

1. A polynucleotide having a nucleotide sequence represented by Sequence ID No: 1.

5 2. A polynucleotide comprising the nucleotide sequence from 211 to 1935 position represented by Sequence ID No: 1.

3. A protein having an amino acid sequence encoded by the polynucleotide according to claim 2.

10 4. A recombinant vector containing the polynucleotide according to claim 1.

5. A recombinant vector containing the polynucleotide according to claim 2.

6. Transgenic medaka fish into which the polynucleotide according to claim 1 is introduced.

15 7. Transgenic medaka fish into which the polynucleotide according to claim 2 is introduced.

20 8. A method of producing medaka fish having one or more thrombi, comprising the step of raising the transgenic medaka fish according to claim 6 in the presence of estrogen.

9. A method of producing medaka fish having one or more thrombi, comprising the step of raising the transgenic medaka fish according to claim 7 in the presence of estrogen.

25 10. Medaka fish having one or more thrombi, which is obtained by raising the transgenic medaka fish according to claim 6 in the presence of estrogen.

11. Medaka fish having one or more thrombi, which is obtained by raising the transgenic medaka fish according to claim 7 in the presence of estrogen.

12. A method of testing an estrogen-like action in  
5 test water, comprising the steps of:

raising the transgenic medaka fish according to claim 6 in the test water; and

observing whether or not one or more thrombi are formed in the medaka fish after the raising step.

10 13. A method of testing an estrogen-like action in test water, comprising the steps of:

raising the transgenic medaka fish according to claim 7 in the test water; and

15 observing whether or not one or more thrombi are formed in the medaka fish after the raising step.

14. The method according to claim 12, wherein the test water is water taken from environment.

15. The method according to claim 13, wherein the test water is water taken from environment.

20 16. The method according to claim 12, wherein the test water is water having a test substance added.

17. The method according to claim 13, wherein the test water is water having a test substance added.